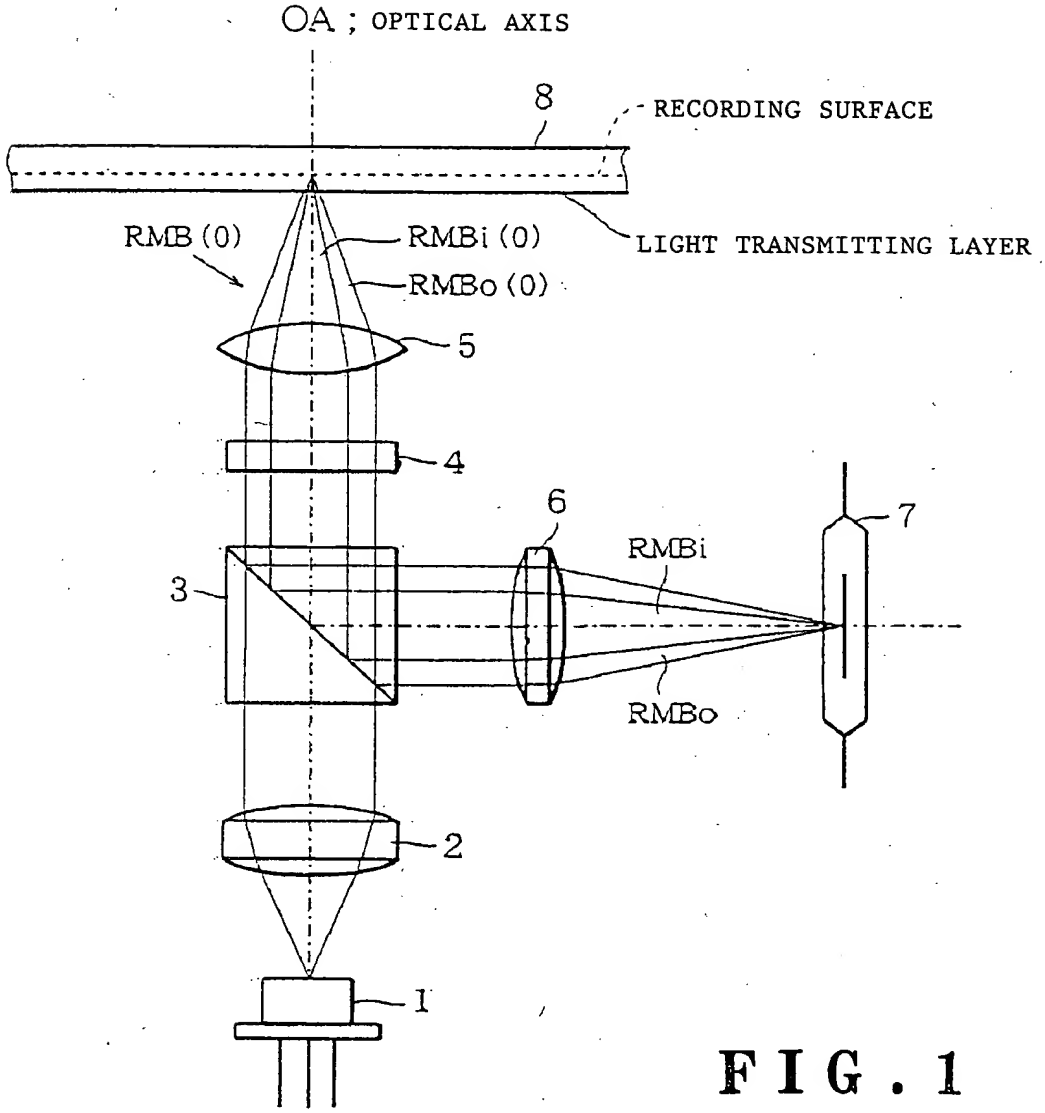

OA ; OPTICAL AXIS
8
RECORDING SURFACE
LIGHT TRANSMITTING LAYER
RMB (0)
RMBi (0)
RMBo (0)
5
4
6
7
RMBi
3
RMBo
2
1

FIG. 1

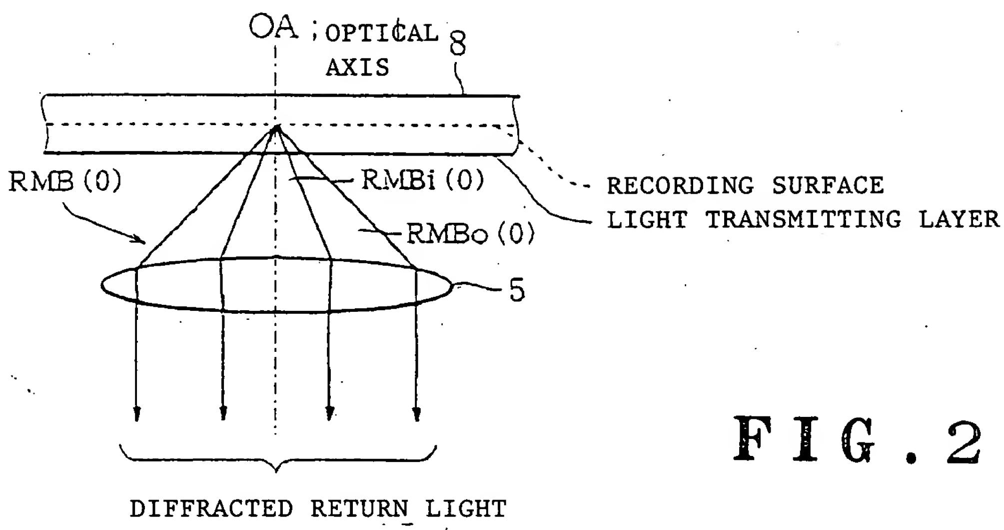


FIG. 2

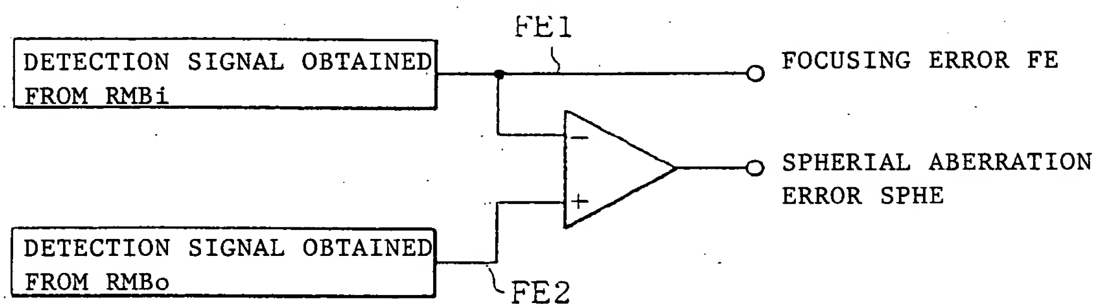
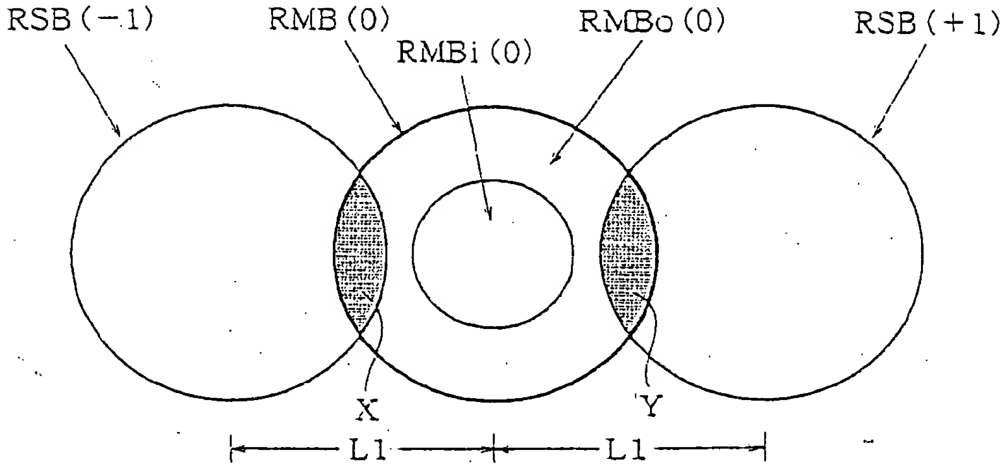


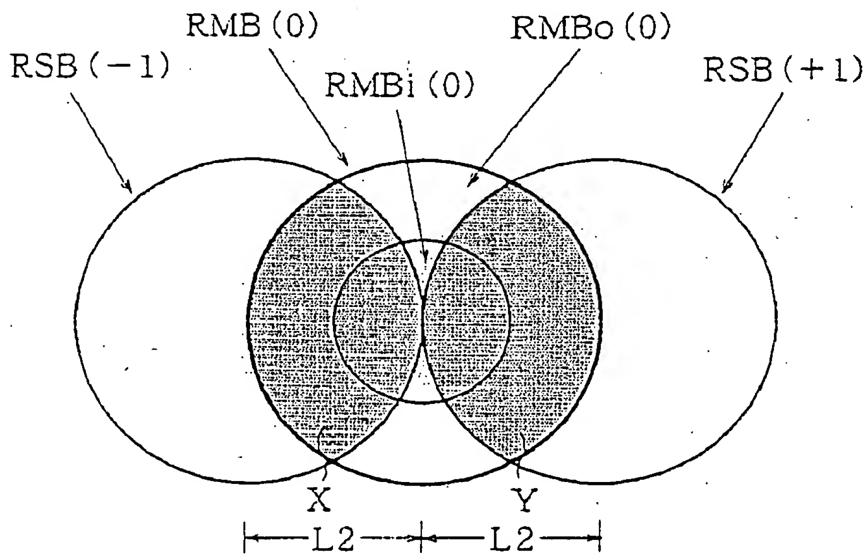
FIG. 3

FIG.4



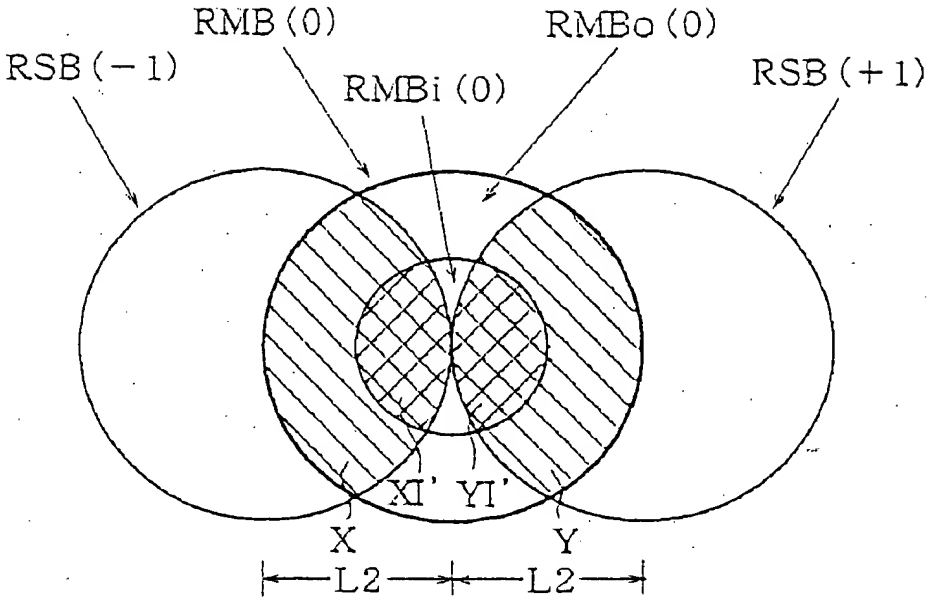
POSITIONAL RELATION BETWEEN THE 0-TH ORDER LIGHT AND THE ±1 PRIMARY DIFFRACTED LIGHT WHEN THE NUMERICAL APERTURE NA IS SMALL IN THE IN-FOCUS STATE OR WHEN THE TRACK PITCH TP IS SMALL IN THE IN-FOCUS STATE. RMB(0):0-TH ORDER LIGHT, RMBi(0):INNER RADIUS LIGHT, RMBo(0):OUTER RADIUS LIGHT, RSB(-1):-1 PRIMARY DIFFRACTED LIGHT, RSB(+1):+1 PRIMARY DIFFRACTED LIGHT

09765306.012201



POSITIONAL RELATION BETWEEN THE 0-TH ORDER LIGHT AND THE ±1 PRIMARY DIFFRACTED LIGHT IN A CASE WHERE THE NUMERICAL APERTURE NA IS LARGE IN THE IN-FOCUS STATE OR IN A CASE WHERE THE TRACK PITCH TP IS LARGE IN THE IN-FOCUS STATE.

FIG.5



POSITIONAL RELATION BETWEEN THE 0-TH ORDER LIGHT AND THE ±1 PRIMARY DIFFRACTED LIGHT WHEN THE NUMERICAL APERTURE NA IS LARGE AND IN THE DEFOCUSING STATE, OR WHEN THE TRACK PITCH TP IS LARGE AND IN THE DEFOCUSING STATE.

FIG. 6

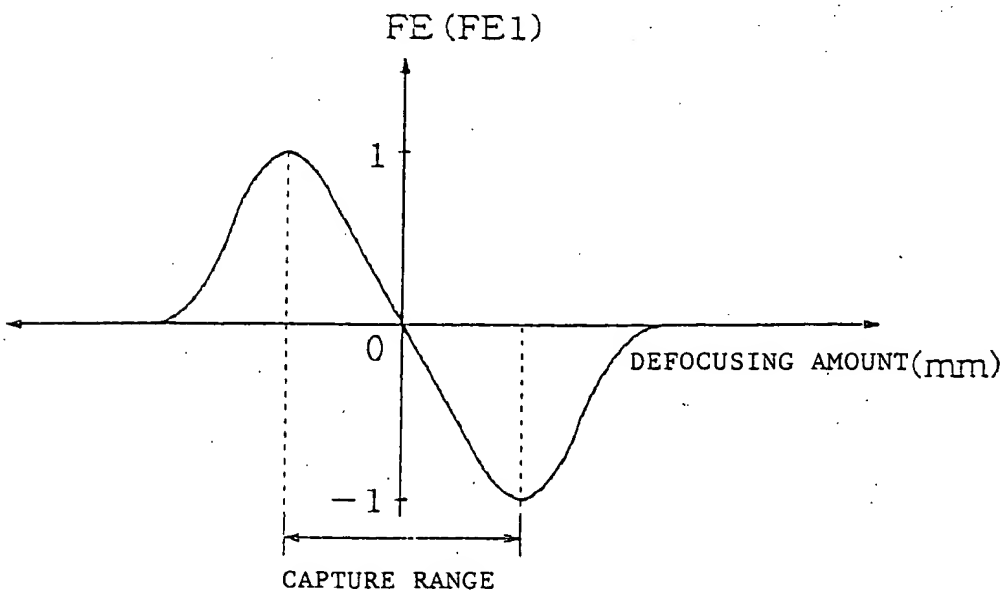


FIG. 7

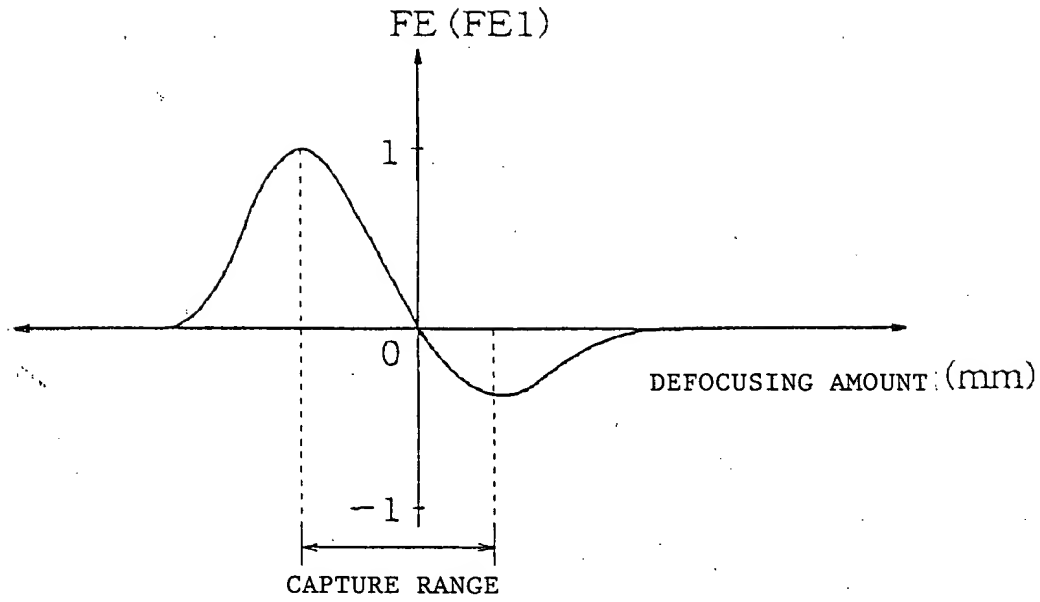


FIG. 8

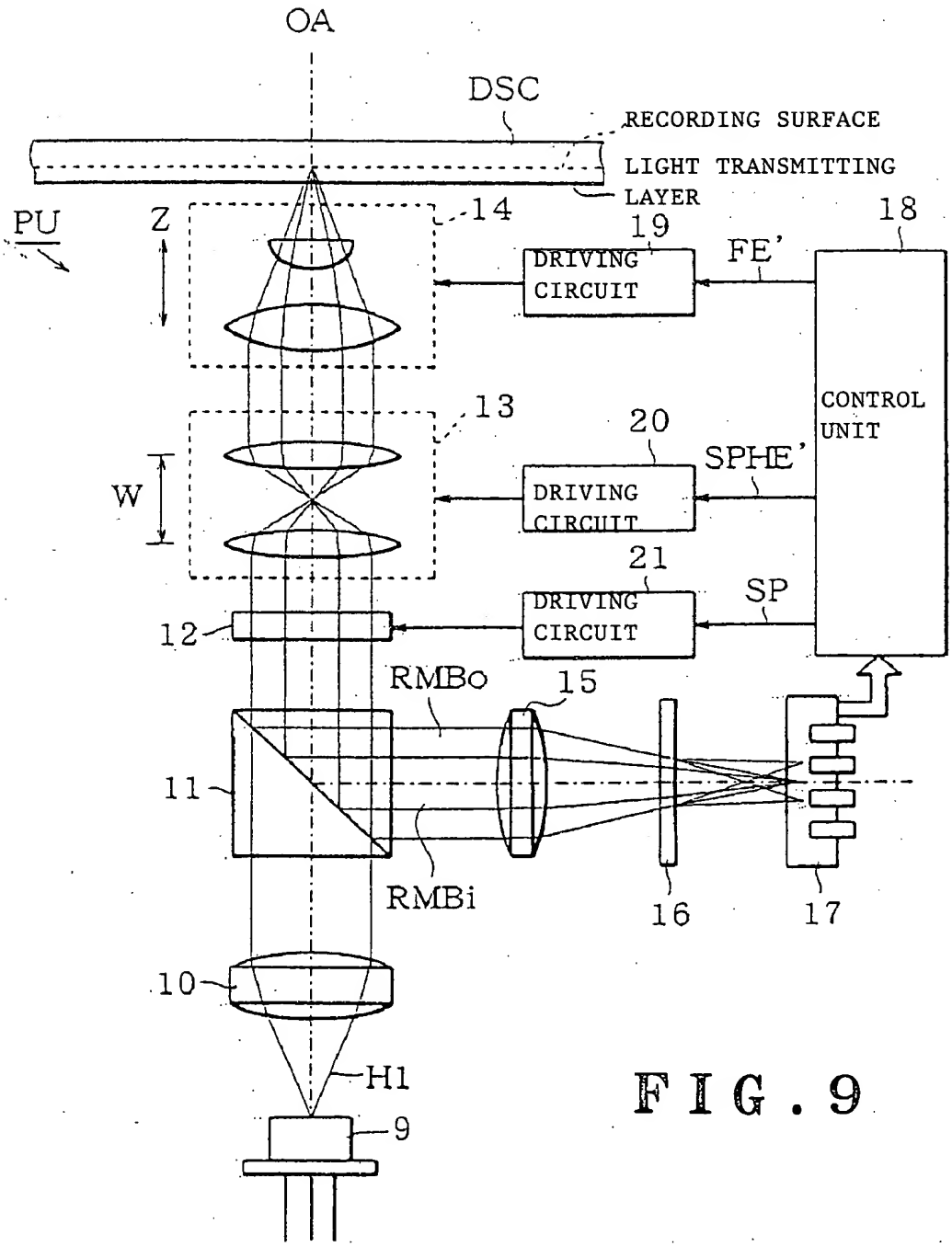


FIG. 9

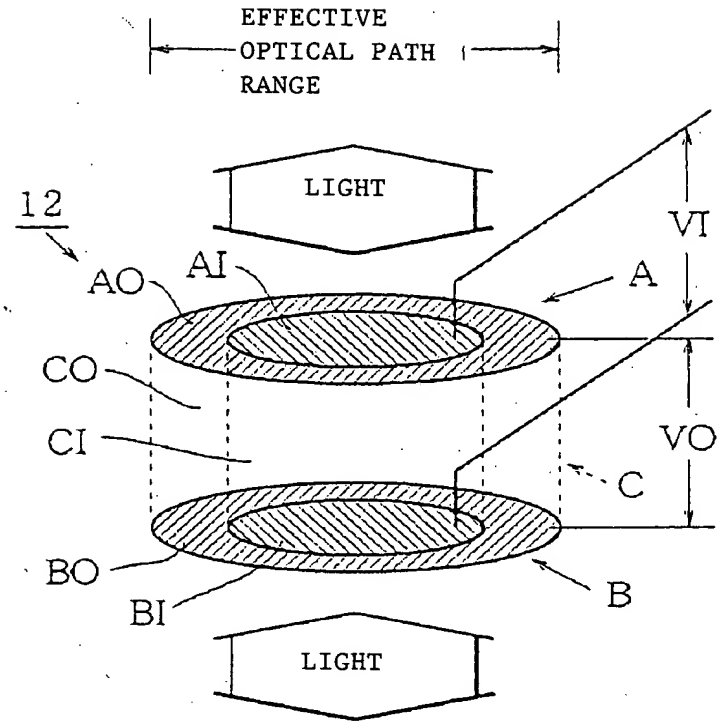

EFFECTIVE
OPTICAL PATH
RANGE
LIGHT
12
AO
AI
A
VI
CO
CI
VO
C
BO
BI
B
LIGHT

FIG. 10

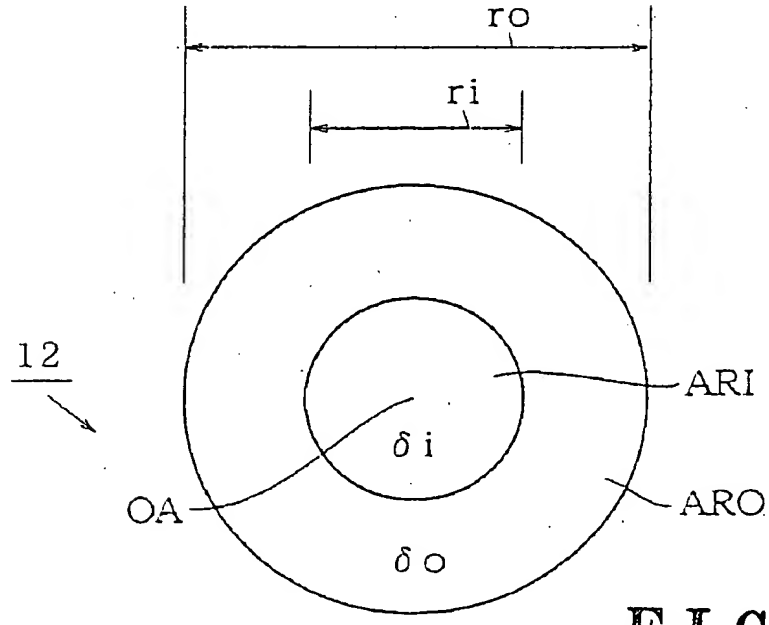

ro
ri
12
ARI
δi
OA
ARO
δo

FIG. 11

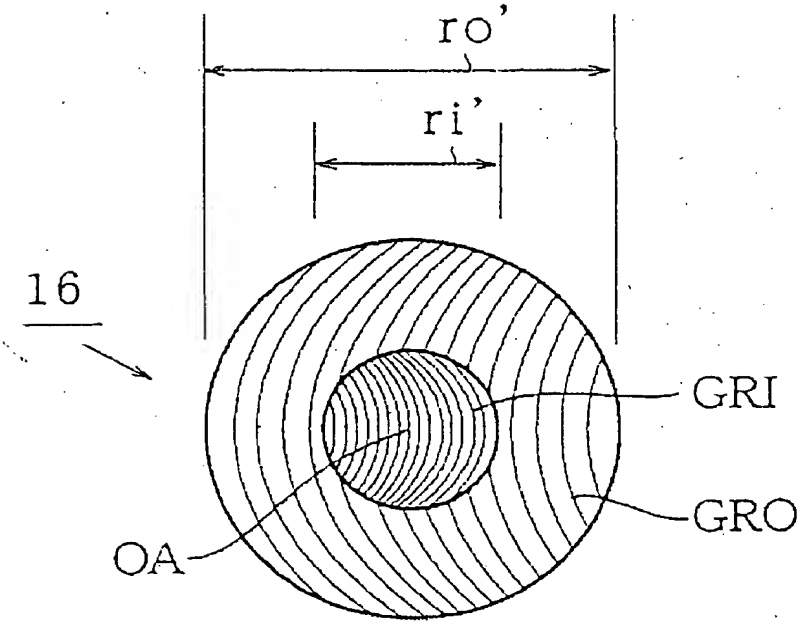

ro'
ri'
16
GRI
GRO
OA

FIG. 12

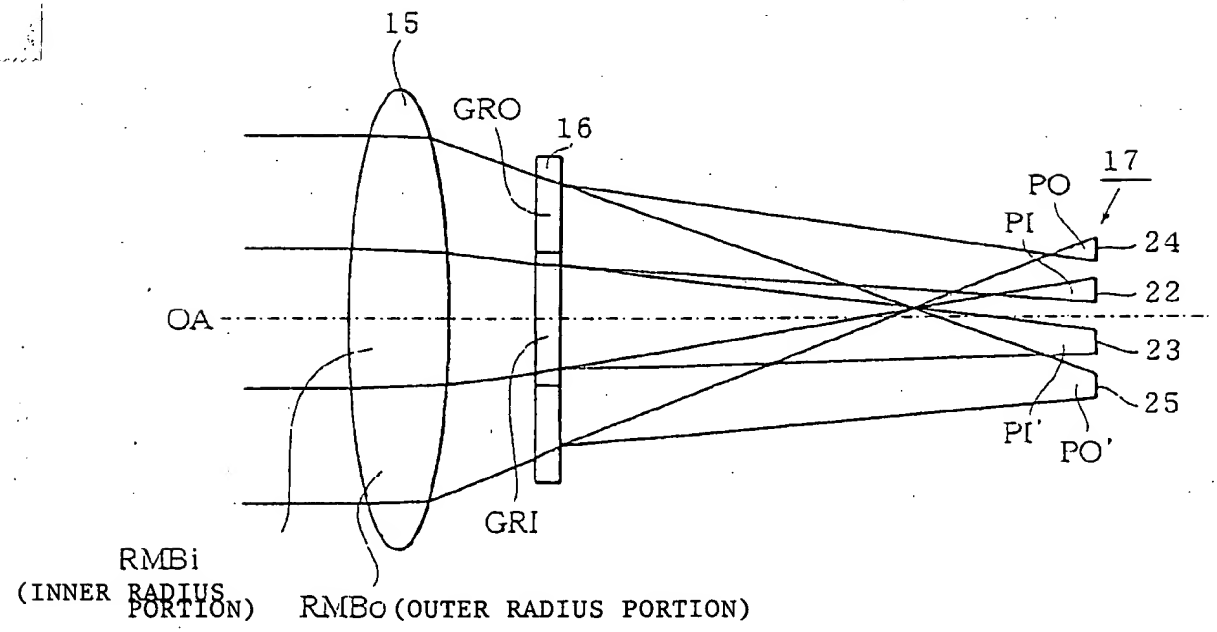

15
GRO
16
17
PO
PI
24
22
OA
23
25
PI'
PO'
GRI
RMBi
(INNER RADIUS PORTION)
RMBo (OUTER RADIUS PORTION)

FIG. 13

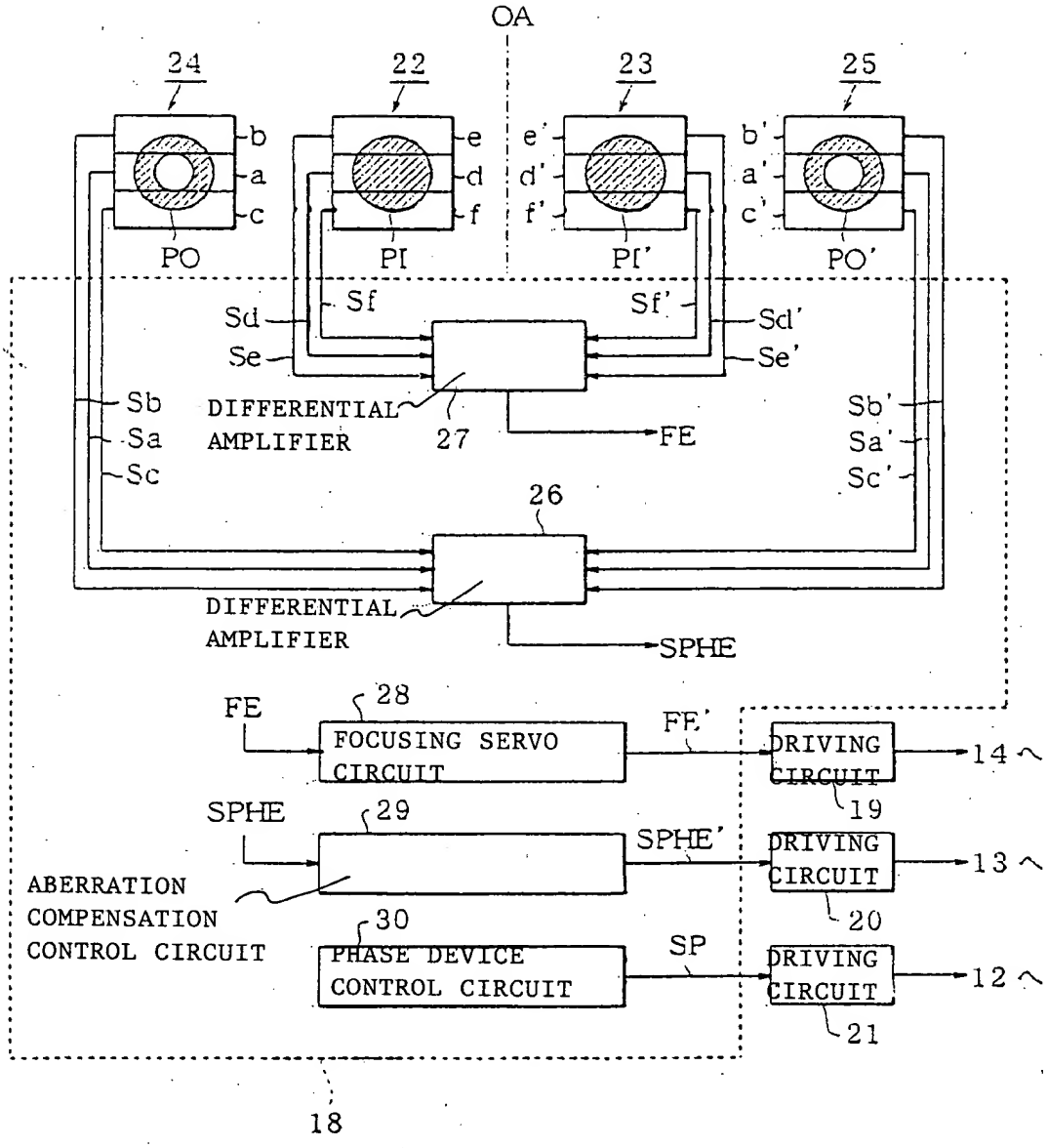


FIG. 14

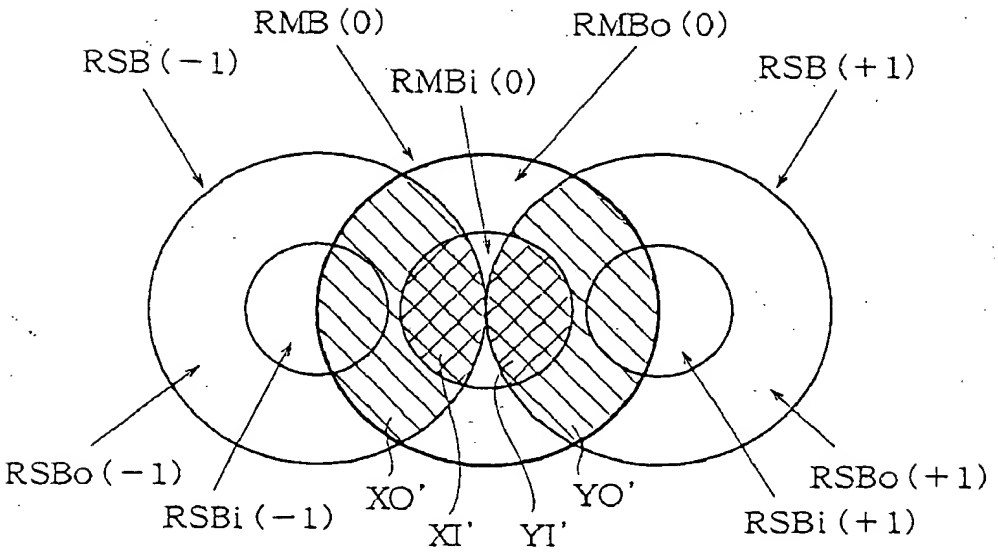


FIG. 15

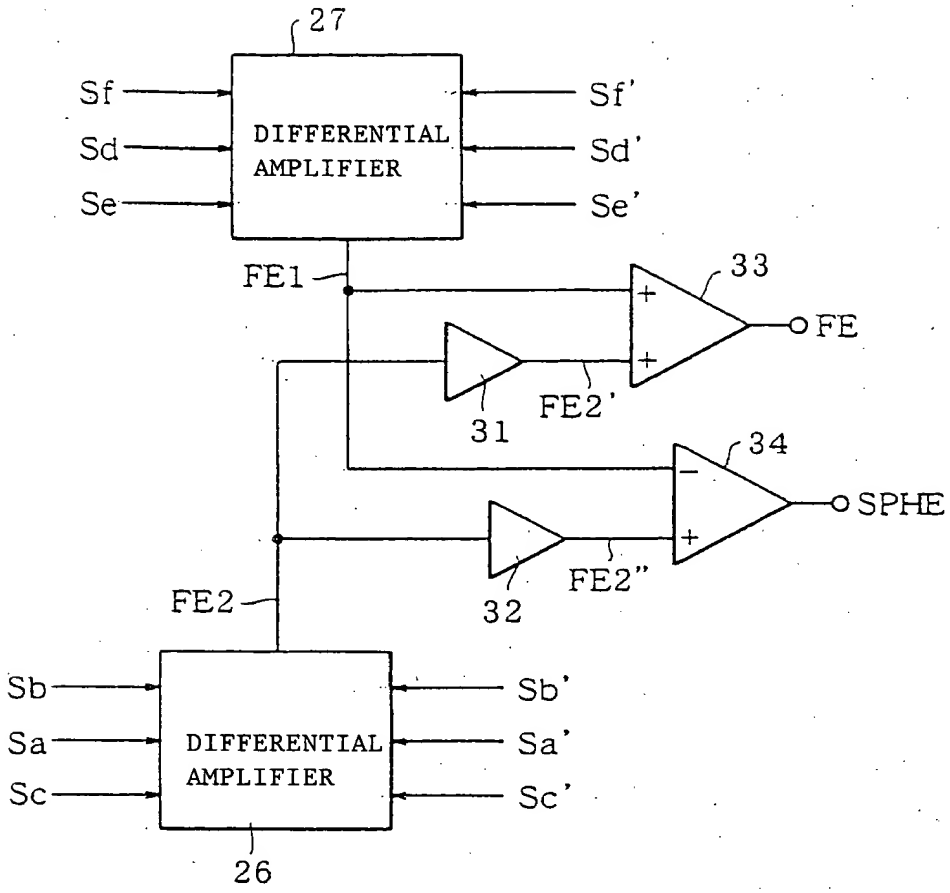

27
Sf
Sd
Se
DIFFERENTIAL AMPLIFIER
Sf'
Sd'
Se'
FE1
33
FE
31
FE2'
34
SPHE
32
FE2"
FE2
Sb
Sa
Sc
DIFFERENTIAL AMPLIFIER
Sb'
Sa'
Sc'
26

FIG. 16

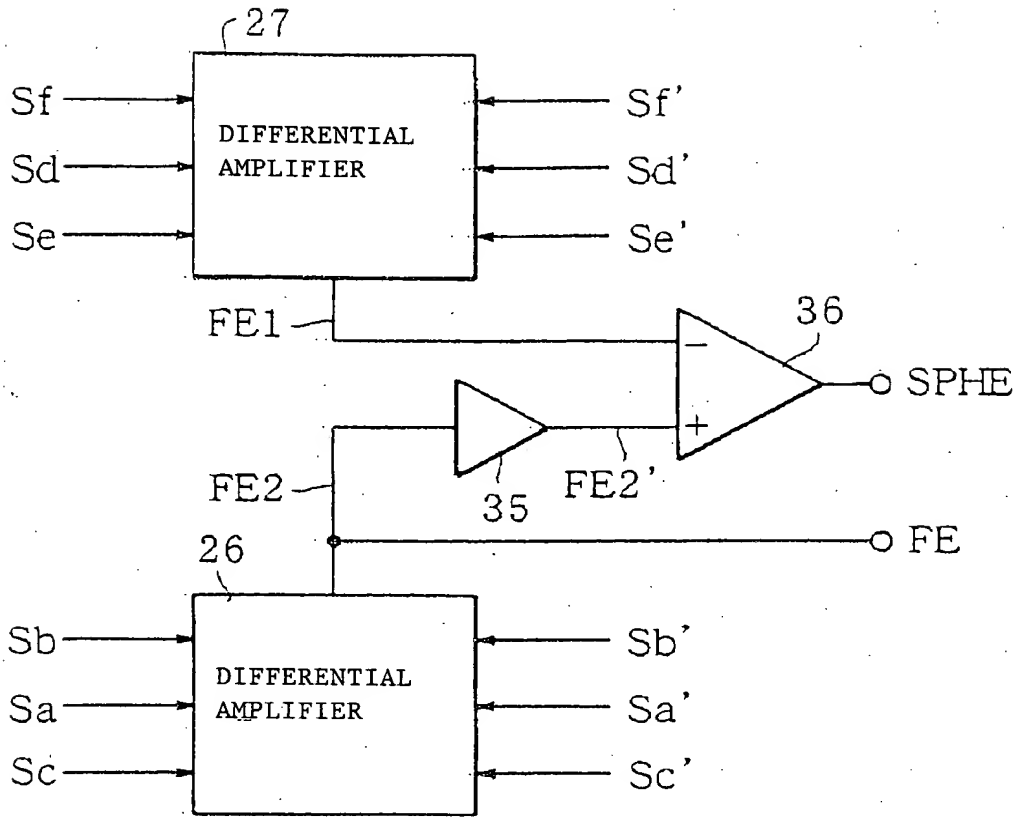

27
Sf
Sd
Se
DIFFERENTIAL AMPLIFIER
Sf'
Sd'
Se'
FE1
36
SPHE
FE2
35
FE2'
FE
26
Sb
Sa
Sc
DIFFERENTIAL AMPLIFIER
Sb'
Sa'
Sc'

FIG. 17

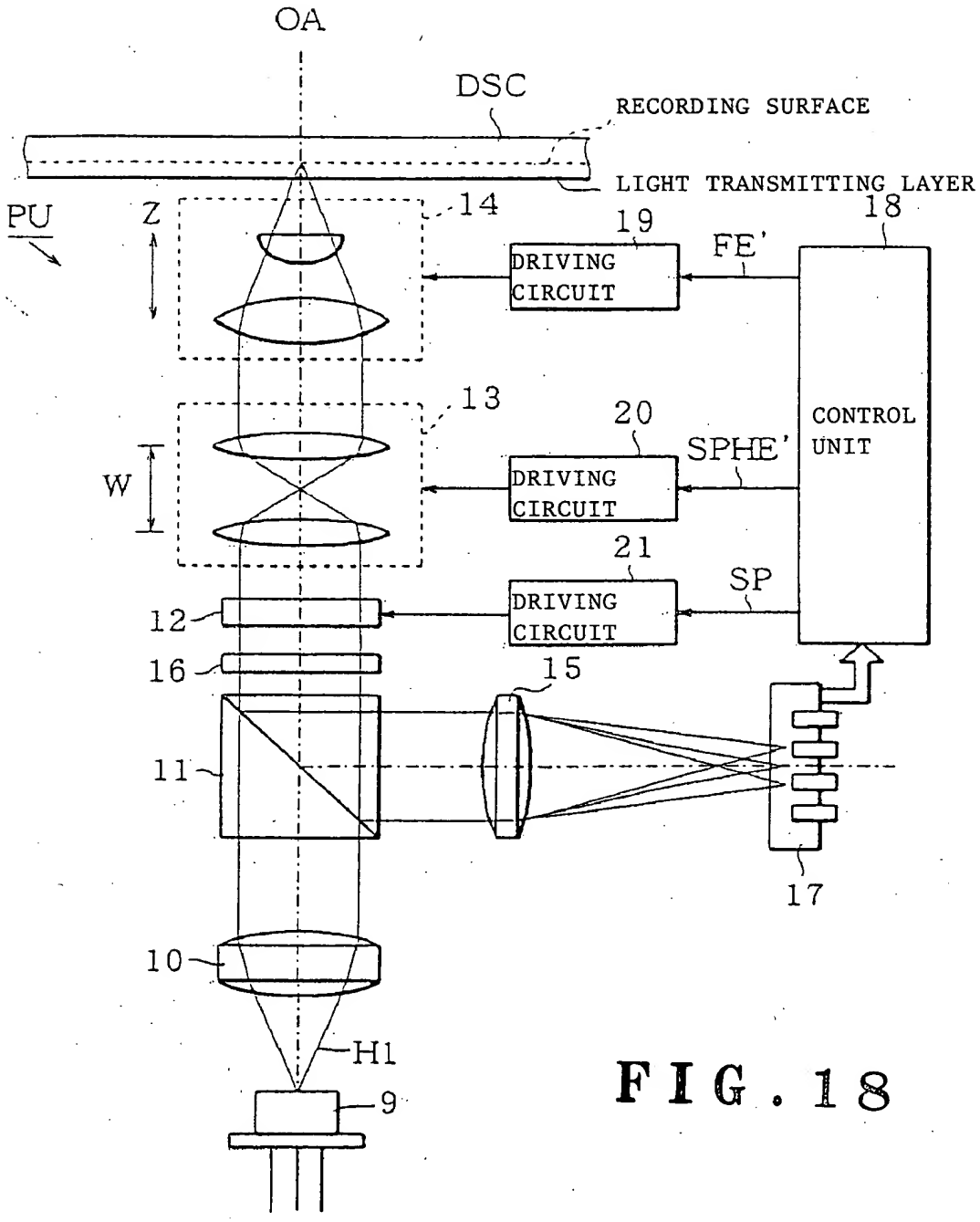

OA
DSC
RECORDING SURFACE
LIGHT TRANSMITTING LAYER
PU
Z
14
19
DRIVING CIRCUIT
FE'
18
CONTROL UNIT
13
20
SPHE'
W
DRIVING CIRCUIT
21
SP
12
DRIVING CIRCUIT
16
15
11
17
10
H1
9

FIG. 18

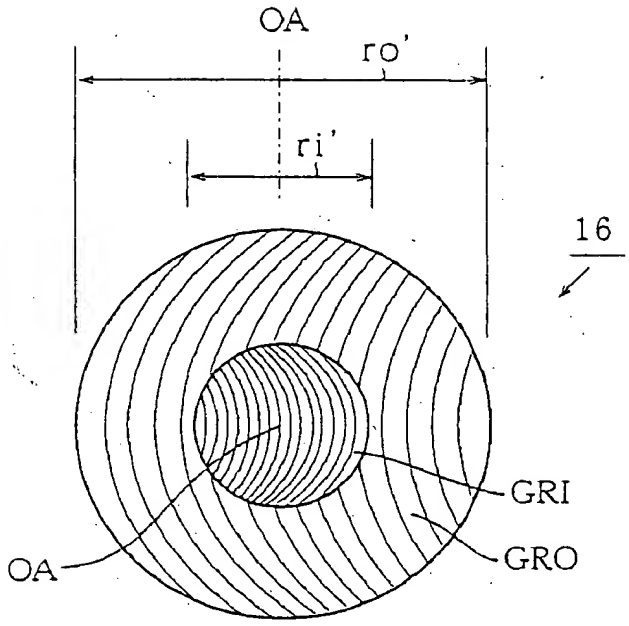


FIG. 19

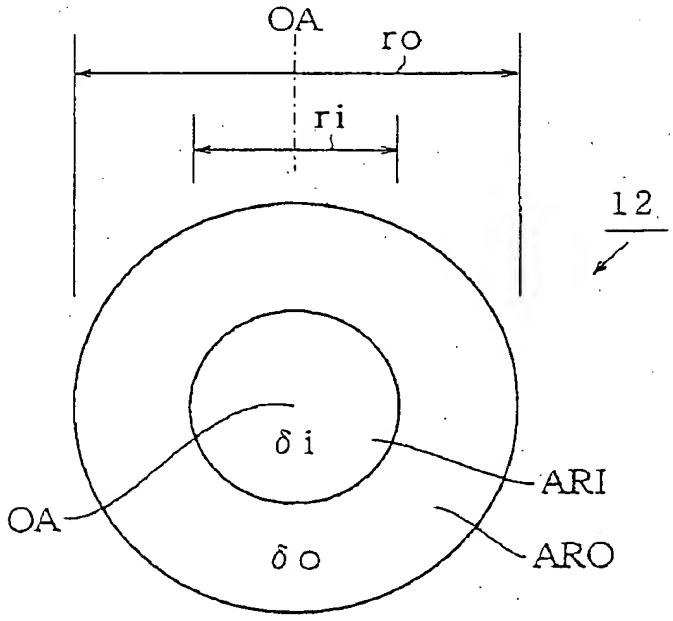


FIG. 20